

Friday, December 16, 2016 11:22:51 AM

Page 1

~~JAN 24 2017~~

D-43  
13  
9-53

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |                                                                                                                   |  |
|--------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |  | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |  | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |  |  |  |                                                                                                                   |  |
| Date :                                                       |  | Step #:                                                                                                                                                                            |  | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | <b>MRB (QS1042) Approval</b><br><br><div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div> |  |
| Description Work Order Deviation                             |  |                                                                                                                                                                                    |  | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |                                                                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |                                                                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | Completed By                                                                                                      |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | Lead hand / Supervisor Approval Verification                                                                      |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | QC / QA Coordinator Approval                                                                                      |  |

| Root Cause         |                          |                       | FAULT CATEGORY           |                        |                          |                                   |                          |                       |                          |                      |
|--------------------|--------------------------|-----------------------|--------------------------|------------------------|--------------------------|-----------------------------------|--------------------------|-----------------------|--------------------------|----------------------|
| Environment        | <input type="checkbox"/> | No Re-verification    | <input type="checkbox"/> | Pressure/Forced        | <input type="checkbox"/> | Temperature/Cure                  | <input type="checkbox"/> | Power Loss/Surge      | <input type="checkbox"/> | Positioned Wrong     |
| Design             | <input type="checkbox"/> | Operator              | <input type="checkbox"/> | Bending                | <input type="checkbox"/> | Set-up                            | <input type="checkbox"/> | Folio/Program         | <input type="checkbox"/> | Outside Dimensions   |
| Doc/Data           | <input type="checkbox"/> | Offset/Setup          | <input type="checkbox"/> | Centre Not Concentric  | <input type="checkbox"/> | BOM/Route                         | <input type="checkbox"/> | Grain                 | <input type="checkbox"/> | Over/Under tolerance |
| Equip/Tooling      | <input type="checkbox"/> | Supplier              | <input type="checkbox"/> | Cracks                 | <input type="checkbox"/> | Broken/Damage/Defect              | <input type="checkbox"/> | Weld                  | <input type="checkbox"/> | Part Incorrect       |
| Handling/Pre       | <input type="checkbox"/> | Training              | <input type="checkbox"/> | Crimp/Kink/Ripple/Wave | <input type="checkbox"/> | Inspection Incomplete/Unqualified | <input type="checkbox"/> | Wrong Stock Pulled    | <input type="checkbox"/> | Part Lost/Missing    |
| Material           | <input type="checkbox"/> | Use for Testing       | <input type="checkbox"/> | Cuffs                  | <input type="checkbox"/> | Contamination                     | <input type="checkbox"/> | Out of Sequence       | <input type="checkbox"/> | Part Moved           |
| Internal Transport | <input type="checkbox"/> | Poor Information      | <input type="checkbox"/> | Crushing               | <input type="checkbox"/> | Countersink                       | <input type="checkbox"/> | Off-set               | <input type="checkbox"/> | Drawing              |
| Tribal Knowledge   | <input type="checkbox"/> | Rushing               | <input type="checkbox"/> | Heat Treat             | <input type="checkbox"/> | Cut Too Short                     | <input type="checkbox"/> | Mislabeled            | <input type="checkbox"/> | Finish               |
| LOA                | <input type="checkbox"/> | Product Improvement   | <input type="checkbox"/> | Wave/Twist in Tube     | <input type="checkbox"/> | Instructions Incomplete/Unclear   | <input type="checkbox"/> | Fit/Function          | <input type="checkbox"/> | Misread              |
| Substation         | <input type="checkbox"/> | Process Improvement   | <input type="checkbox"/> | Marks/Chatter          | <input type="checkbox"/> | Drill Holes                       | <input type="checkbox"/> | Misaligned/off center | <input type="checkbox"/> | Turning Sequence     |
| Past Expiry Date   | <input type="checkbox"/> | Manufacturing Process | <input type="checkbox"/> | <b>OTHER :</b>         |                          |                                   |                          |                       |                          |                      |
| Misidentified      | <input type="checkbox"/> | Past Due              | <input type="checkbox"/> |                        |                          |                                   |                          |                       |                          |                      |

**Work Order ID 154078**

Friday, December 16, 2016 11:22:51 AM

**\*154078\***

Page 2

Item ID: D3338-1 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Mounting Lug  
Start Date: 12/5/2016 Start Qty: 10.00 **\*10\*** Cust Item ID:  
Required Date: 12/5/2016 Req'd Qty: 10.00 **\*10\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID                      | Operation<br>Description                                                                                                          | Set Up/<br>Run Hours           | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 140<br><b>*140*</b><br>HandFinish<br>Hand Finishing | Chemical Conversion Coat per QSI005 4.1<br>Memo<br>N/A                                                                            | 0.00<br>DAS 0.03<br>38<br>9-89 |         |        |              |               |               |                  |                |
| 150<br><b>*150*</b><br>QC<br>Quality Control        | QC7-Inspect Chemical Conversion Coat<br>Memo<br>N/A                                                                               | 0.00<br>JAS 0.02<br>38<br>9-89 |         |        |              |               |               |                  |                |
| 160<br><b>*160*</b><br>Powdercoat<br>Powder Coating | White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum<br>Memo<br>N/A<br>START TIME: _____<br>OVEN TEMPERATURE: _____<br>FINISH TIME: _____ | 0.00<br>DAS 0.14<br>38<br>9-89 |         |        |              |               |               |                  |                |

**Work Order ID 154078**

Friday, December 16, 2016 11:22:51 AM

**\*154078\***

Page 3

Item ID: D3338-1 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Mounting Lug  
Start Date: 12/5/2016 Start Qty: 10.00 **\*10\*** Cust Item ID:  
Required Date: 12/5/2016 Req'd Qty: 10.00 **\*10\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description                          | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp    |
|--------------------------------|---------------------------------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|-------------------|
| 170                            | QC3- Inspect Part Finish                          | 0.00                 |         |        |              |               |               |                  |                   |
| <b>*170*</b>                   |                                                   |                      |         |        |              | 10            |               |                  | DAS<br>38<br>8-89 |
| QC                             | Memo                                              | 0.03                 |         |        |              |               |               |                  |                   |
| Quality Control                |                                                   |                      |         |        |              |               |               |                  | JAN 24 2017       |
| 180                            | Identify as per dwg & Stock Location: <u>S/S7</u> | 0.00                 |         |        |              |               |               |                  |                   |
| <b>*180*</b>                   |                                                   |                      |         |        |              | 10            |               |                  | DAS<br>21<br>8-89 |
| Packaging                      | Memo                                              | 0.02                 |         |        |              |               |               |                  | JAN 31 2017       |
| Packaging                      |                                                   |                      |         |        |              |               |               |                  |                   |
| 190                            | QC21- Final Inspection - Work Order Release       | 0.00                 |         |        |              |               |               |                  |                   |
| <b>*190*</b>                   |                                                   |                      |         |        |              |               |               |                  | 17/02/01 DJ       |
| QC                             | Memo                                              | 0.17                 |         |        |              |               |               |                  |                   |
| Quality Control                |                                                   |                      |         |        |              |               |               |                  |                   |



JAN 31 2017



# Picklist Print

Friday, December 16, 2016 11:22:50 AM

Page 1

Work Order ID: 154078

**\*154078\***

Parent Item: D3338-1

**\*D3338-1\***

Parent Item Name: Mounting Lug

Start Date: 12/5/2016

Required Date: 12/5/2016

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP: A05.02.09New issue KJ/JLM

| Component Item ID/<br>Item Name          | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status            |
|------------------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|-------------------|
| D2423<br><b>*D2423*</b><br>Lug Extrusion |                        | Manufactured  | No          |                     |                  | 100             | f                  | 422.4855       | 0.718947    |              |               |                |                   |
|                                          |                        |               |             |                     |                  |                 |                    |                |             | 0.718947     |               | DEC 16 2016    | DAS<br>13<br>9-69 |

Location

Metec

Loc Qty

422.4855307

Loc Code

127892

36.5122647

131451

97.654451

148835

288.318815

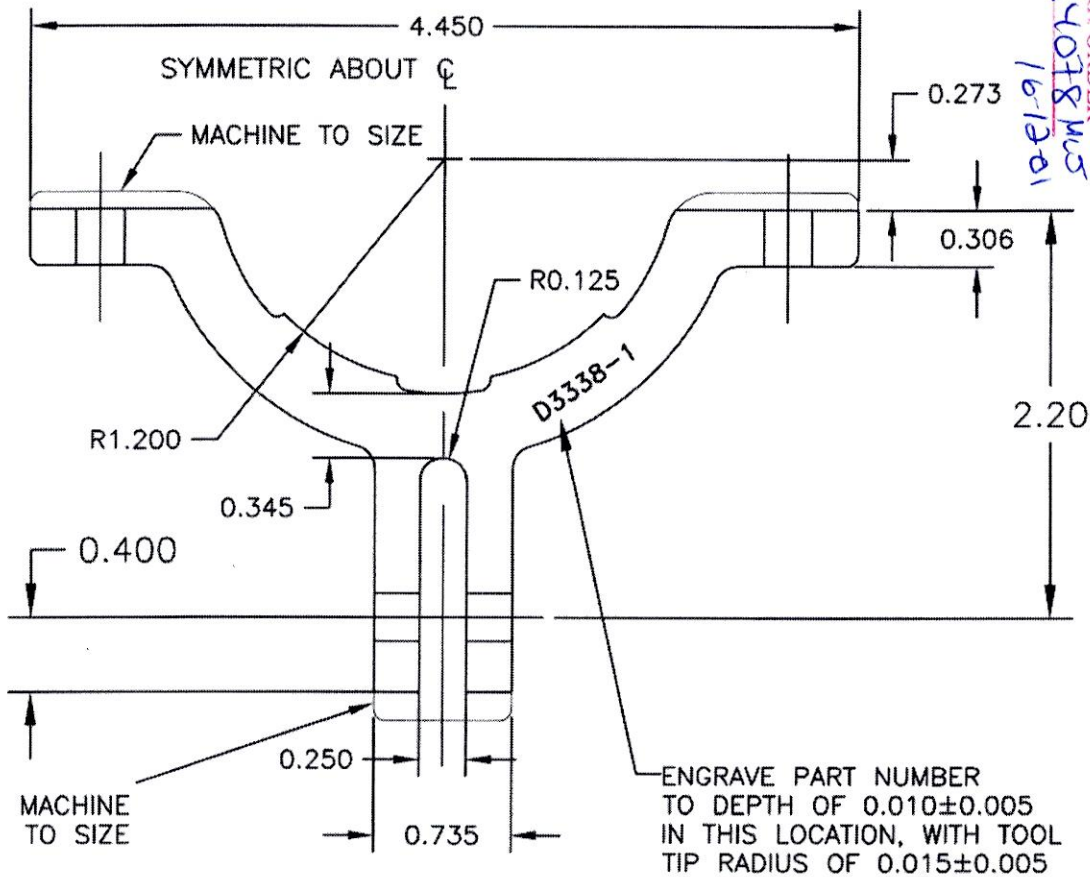
D 3338-1P

X 10

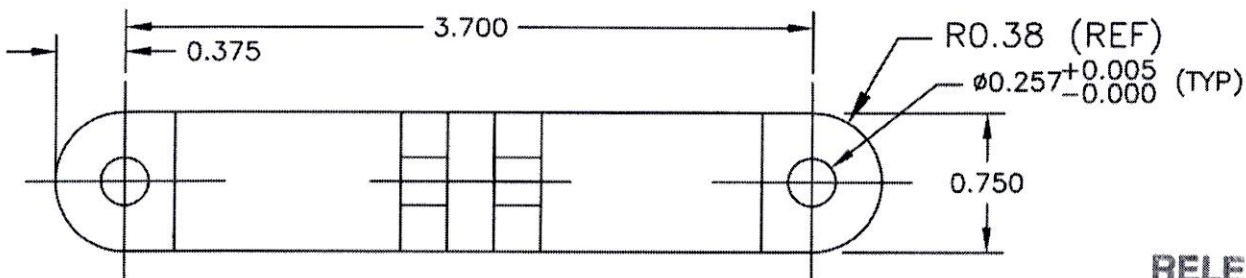
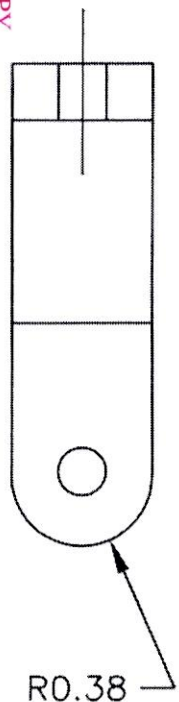
10 x 2016-12-21

**DART**

|                        |                         |                                                   |                        |
|------------------------|-------------------------|---------------------------------------------------|------------------------|
| DESIGN<br>PH           | DRAWN BY<br>PH          | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA |                        |
| CHECKED<br>[Signature] | APPROVED<br>[Signature] | DRAWING NO.<br>D3338                              | REV. A<br>SHEET 1 OF 1 |
| DATE<br>04.11.03       |                         | TITLE<br>MOUNTING LUG                             | SCALE<br>1:1           |
| A                      | 04.11.03                | NEW ISSUE                                         |                        |



SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 154078 MJS  
16-12-01

**D3338-1 NOTES**

- 1) MAKE FROM EXTRUSION D2423
- 2) BREAK ALL EDGES 0.000-0.015
- 3) FINISH: ACID ETCH AND ALODINE PER DART QSI 005 4.1  
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

**RELEASE**

04.12.16 [Signature]

**Copyright © 2004 by DART AEROSPACE LTD**

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO34659**

Purchase Order Date 12/16/2016

PO Print Date 12/16/2016

Page Number 1 of 2

**Order From :**

VC-MET003

**Ship To :** DART AEROSPACE LTD

METEC METAL TECHNOLOGY INC.  
20 TERRY FOX DRIVE PO BOX 781  
VANKLEEK HILL, ON K0B 1R0  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA



**Contact Name**

**Vendor Phone** 613 678 3957

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Dart Truck

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 10

**Currency**

CAD

**FOB**

Destination-Collect

DEC 16 2016

| Line Nbr                                                                                                                                                                                                                                                                                                                                                | Reference<br>Vendor Part Number<br>Line Comments<br>Delivery Comments | Description/<br>Mfg ID         | Req Date/<br>Taxable<br>Promise Date | CD | Req Qty/<br>Unit of<br>Measure | PO Unit Price | Extended<br>Price |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------|--------------------------------------|----|--------------------------------|---------------|-------------------|
| 1                                                                                                                                                                                                                                                                                                                                                       | D3338-1P<br>DAS 38 3-89<br>AS PER DWG D3338 REV. A<br>B154078         | Mounting Lug                   | 1/11/2017<br>No<br>1/11/2017         |    | 10.00<br>Each                  | \$20.60       | \$206.00          |
| Line Total:                                                                                                                                                                                                                                                                                                                                             |                                                                       |                                |                                      |    |                                |               | \$206.00          |
| 2                                                                                                                                                                                                                                                                                                                                                       | 71401-45                                                              | PROCUREMENT<br>QUALITY CLAUSES | 1/11/2017<br>No<br>1/11/2017         |    | 1.00                           | \$0.00        | \$0.00            |
| Procurement Quality Clauses<br>A004 faa-pma/tso<br>A005 right of entry<br>A007 first article inspection ( FAI documentation maintained by<br>supplier)<br>A016 personnel qualification<br>A026 certification of materila conformance<br>A040 notification of escape clauses<br>A042 dart notification by supplier<br>A043 retention of quality document |                                                                       |                                |                                      |    |                                |               |                   |

**Note:**

12/16/2016





20 Terry Fox Drive  
Vankleek Hill, Ontario K0B 1R0 , Canada  
Tel: (613) 678-3957  
Fax: (613) 678-3956

**Delivery Slip No.:** 21015  
**Date:** Dec 19, 2016  
**Page:** 1

|                                                                                                                                |                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Sold to:</b><br><br><b>Dart Aerospace Ltd.</b><br>Att. Linda Lacelle<br>1270 Aberdeen Street<br>Hawkesbury, Ontario K6A 1K7 | <b>Ship to:</b><br><br>Dart Aerospace Ltd.<br>Att. Linda Lacelle<br>1270 Aberdeen Street<br>Hawkesbury, Ontario K6A 1K7 |
| <b>Order No.:</b> 34659                                                                                                        | <b>Sold By:</b> VanDenYssel, David                                                                                      |
| <b>Shipped By:</b> your truck                                                                                                  | <b>Ship Date:</b> Dec 19, 2016                                                                                          |

| Description                                                                                                                                                                                      | Unit | Ordered quantity          | Shipped quantity | Backorder quantity |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------|------------------|--------------------|
| D3338-1 Mounting Lug                                                                                                                                                                             | Each |                           | 10               |                    |
| The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted. |      |                           |                  |                    |
| Received by _____                                                                                                                                                                                |      | Thank you for your order! |                  |                    |

2016-12-21

DAS  
38  
3-89





20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 [metec@metec.ca](mailto:metec@metec.ca)

---

## CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, Ont.  
K6A 1K7

SHIPPED TO:

same

| <u>QUANTITY</u> | <u>PART NUMBER</u> | <u>PART NAME</u>                         | <u>P.O. NUMBER</u> |
|-----------------|--------------------|------------------------------------------|--------------------|
| 10              | D3338-1            | Lug Paint Batch # 20390 Material B131451 | 34659              |

Material supplied by DART

We hereby certify that the above parts were made in conformance with applicable drawings.

*METEC Metal Technology Inc.*

A handwritten signature in black ink, appearing to read "Jan Norris", is written over the printed name.

Jan Norris

Vankleek Hill, December 19, 2016